IAP12 Rec'd PCT/PTO 3 1 AUG 2006 ATTORNEY'S DOCKET NUMBER

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PRIORITY

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE (REV. 7-2005) TRANSMITTAL LETTER TO THE UNITED STATES

DESIGNATED/ELECTED OFFICE (DO/EO/US)

CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

DATE CLAIMED

02 March 2004 (02.03.04)

INTERNATIONAL APPLICATION NO. PCT/US2005/006638

INTERNATIONAL FILING DATE 28 February 2005 (28.02.05)

TITLE OF INVENTION

HYDROGENASE DEFICIENT BACTERIAL STRAINS

		T(S) FOR DO/EO/US					
MA	IER,	Robert J., et al.					
Applic	ant h	erewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:					
1.	\boxtimes	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.					
2.		This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.					
3.		This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.					
4.	\boxtimes	The US has been elected (Article 31).					
5.	\boxtimes	A copy of the International Application as filed (35 U.S.C. 371 (c)(2))					
		a. is attached hereto (required only if not communicated by the International Bureau).					
		b. has been communicated by the International Bureau.					
		c. 🛛 is not required, as the application was filed in the United States Receiving Office (RO/US).					
6		An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).					
	.	a. is attached hereto.					
		b. has been previously submitted under 35 U.S.C. 154(d)(4).					
7.	\boxtimes	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))					
		a. are attached hereto (required only if not communicated by the International Bureau).					
•		b. have been communicated by the International Bureau.					
		c. \square have not been made; however, the time limit for making such amendments has NOT expired.					
		d. 🛛 have not been made and will not be made.					
8.		An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).					
9.	\boxtimes	An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). (Unexecuted)					
10.		An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).					
11.		A copy of the International Preliminary Examination Report (PCT/IPEA/409).					
12.	\boxtimes	A copy of the International Search Report (PCT/ISA/210).					
ite	ems 1	3 to 23 below concern document(s) or information included:					
13.	\boxtimes	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.					
14.		An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.					
15.	\boxtimes	A FIRST preliminary amendment.					
16.		A SECOND or SUBSEQUENT preliminary amendment.					
17.		A substitute specification.					
18.	\boxtimes	A power of attorney and/or change of address letter.					
19.		A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.					
20.		A second copy of the published International Application under 35 U.S.C. 154(d)(4).					
21.		A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).					
22.	\boxtimes	Express Mail Label No. EV 417 056 282 US					

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PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATIO	IN NO (II Known, see		INTERNATIONAL	APPL	ICATION N	ا .	ATTORNEYS DOC	KELNOWBER	
	10/591	.203	PCT/US20	05/0	06638		· 31725-20	0815	
23. Other ite	ms or information:		_						
A photocopy of the Written Opinion A photocopy of the Relevant Statement Regarding Sequence Listing filed in connection with PCT/US2005/006638									
The fellowin							CALCULATIONS	PTO USE	
	g fees have been s ational fee	\$300	\$ \$300.00						
If the written opin prepared by IPEA	ation fee (37 CFR ion prepared by IS	eport \$0 \$200	· · · · · · · · · · · · · · · · · · ·						
If the written opin by IPEA/US Search fee (37 C as an Intern International Sea previously	fee (37 CFR 1.492 ionof the ISA/US of Sindicates all claim FR 1.445(a)(2)) ha national Searching rch Report prepare communicated to the searching from the searching	\$0 \$100 \$400 \$500	\$ \$100.00						
	L OF 24, 25 and					4000	\$ \$600.00		
Additional fe sequence lis listing in an The fee is \$	e for specification sting in compliance electronic medium 250 for each additi	ding							
Total Sheets	eets Extra Sheets Number of each additional 50 or fraction thereof (round up to a whole			Ξ					
- 100 =	0 /50 =		0		× \$250	0.00	\$ \$0.00		
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).							\$		
CLAIMS	NUMBER F	LED 1	NUMBER EXTRA		RATE				
Total claims	17	- 20 =	0	х	\$50	0.00	\$ \$0.00		
Independent clair	ms 4	- 3=	1	х	\$200	0.00	\$ \$200.00		
MULTIPLE DEPE	ENDENT CLAIMS	(if applicable)		+	\$360	0.00	\$ \$0.00		
		TOTA	L OF ABOVE C	ALC	ULATIO	NS =	\$ \$800.00		
Applicant cla	Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.								
			<u></u>		UBTOT		\$ \$400.00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).							\$ \$0.00		
TOTAL NATIONAL FEE =							\$ \$400.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +							\$ \$0.00		
	TOTAL FEES ENCLOSED =						\$ \$400.00		
					•		Amount to be	\$	
							Amount to be	s	

10/591203

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. a. X A check in the amount of \$ \$400.00 to cover the above fees is enclosed. in the amount of \$ to cover the above fees. b. Please charge my Deposit Account No. A duplicate copy of this sheet is enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment . A duplicate copy of this sheet is enclosed. to Deposit Account No. 10-0435 d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO: SIGNATURE ADDISON, Bradford G. **BARNES & THORNBURG LLP Bradford G. ADDISON** 11 South Meridian Street NAME Indianapolis, IN 46204 US 41,486 **REGISTRATION NUMBER** 31 August 2006 (31.08.06) DATE

BARNES & THORNBURG LLP

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Indianapolis, Indiana 46204

(317) 236-1313

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney)
Docket:	31725-200815)
Applicants:	Robert J. MAIER, et al.)
Invention:	HYDROGENASE DEFICIENT BACTERIAL STRAINS)
U.S. Serial No.:	UNKNOWN)
International Serial No:	PCT/US2005/006638)
International Filing Date:	February 28, 2005)
Earliest Priority Date:	March 2, 2004	,

CERTIFICATE UNDER 37 C.F.R. § 1.10

Attention: DO/EO/US

Box PCT

Assistant Commissioner for Patents

Washington, D.C. 20231

Sir:

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Date of Deposit:

31 August 2006 (31.08.06)

I hereby certify that this paper or fee is being deposited with the United States Postal Service's "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, Attention: DO/EO/US.

leather L. Behlmer

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